

# 1/2-inch Preamplifier Type 26CA

## Product Data and Specifications

### Typical applications

- *CCP inputs*
- *Prepolarized microphones*
- *1/2-inch precision microphones*
- *High levels and high frequencies*

The G.R.A.S. 1/2-inch Preamplifier Type 26CA is a general purpose preamplifier optimized for use with prepolarized condenser microphones. It is a small, robust unit and uses a G.R.A.S. CCP<sup>1</sup> supply, e.g. Type 12AL. It has a very low inherent noise level, a large dynamic range and a frequency response from below 2 Hz to above 200 kHz.

Its small ceramic thick-film substrate has a very high input impedance, and is shielded by a guard ring to minimise the influence of stray capacitance and microphonic interference.

The Type 26CA is delivered with a built-in TEDS<sup>2</sup> chip, and can be programmed as a single unit with a microphone fitted.

### Specifications

<b>Frequency response (cable load 4.7 nF):</b> 2 Hz - 200 kHz ..... ±0.2 dB	<b>Maximum signal-output voltage (peak):</b> ±8.0 V
<b>Input impedance:</b> 20 GΩ, 0.4 pF	<b>Temperature:</b> <b>Operation:</b> .....-30°C to +70°C <b>Storage:</b> ..... -40°C to +85°C
<b>Output impedance (Cs = 20 pF, f=1000Hz):</b> < 50 Ω	<b>Relative humidity:</b> <b>Operation:</b> ..... 0 to 95 % <b>Storage:</b> ..... 0 to 95 %
<b>Noise (measured with 20 pF 1/2-inch dummy mic.):</b> <b>A-weighted:</b> ..... ≤2.2 μV rms (typically 1.8 μV rms)	<b>Connector type:</b> BNC
<b>Linear (20 Hz - 20 kHz):</b> ≤6 μV rms (typically 3.5 μV rms)	<b>Dimensions and weight:</b> <b>Diameter:</b> ..... 12.7 mm (1/2-inch) <b>Length:</b> ..... 73 mm (2.9 inches) <b>Weight:</b> ..... 26 g (0.9 oz)
<b>Gain:</b> Typically:..... -0.25 dB	
<b>Power-supply:</b> 2 mA to 20 mA (typically 4 mA)	

*G.R.A.S. Sound & Vibration reserves the right to change specifications and accessories without notice*



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It can be used with all G.R.A.S. prepolarized microphones, namely:

1/2-inch microphones:  
Types 40AE, 40AD and 40AQ

1/4-inch microphones:  
Types 40BE and 40BD, using the optional 1/2-inch to 1/4-inch adaptor RA0019

It has an integrated BNC output connector.

The casing is made of stainless steel for maximum strength and durability.

<sup>1</sup> Constant Current Power

<sup>2</sup> Transducer Electronic Data Sheet - as proposed by IEEE-P1451.4